

## **IN THE CLAIMS**

1 1. (original) A method for displaying an image only to an authorized user,  
2 comprising:  
3       generating a data image;  
4       generating a mask image, wherein the mask image is a negation of the data  
5 image;  
6       selecting the data image or the mask image according to a select signal; and  
7       sequentially displaying the selected images on a display device.

1 2. (original) The method of claim 1 further comprising;  
2       opening an optical shutter device when the data image is displayed;  
3       shutting the optical shutter device when the mask image is displayed so that  
4 only the data image is perceived by the authorized user viewing the display device  
5 through the optical shutter device, and a gray image is perceived by an  
6 unauthorized user viewing the data and mask images directly, the opening and  
7 shutting synchronized in phase and frequency to the select signal.

1 3. (original) The method of claim 2 wherein the optical shutter device includes a  
2 polarizing lens on either side of a ferro-electric liquid crystal polarization rotator.

1 4. (original) The method of claim 2 further comprising:  
2       synchronizing the displaying, and the opening and shutting by a wire link.

1 5. (original) The method of claim 2 further comprising:  
2       synchronizing the displaying, and the opening and shutting by a wireless  
3 link.

1 6. (original) The method of claim 5 wherein the synchronization is according to a  
2 phase of the select signal.

1 7. (original) The method of claim 1 wherein each image is a color image, and the  
2 negation is done independently for each color channel of the color image.

1 8. (original) The method of claim 7 further comprising:  
2 gamma-correcting each color channel after the negation.

1 9. (original) The method of claim 7 wherein each input pixel of each color image  
2 has an intensity in a range from 0 to 255, and each output pixel is determined by:  
3 
$$\text{output} = 255((\text{input}/255)^{1/\gamma}) + 0.5.$$

1 10. (original) The method of claim 1 wherein the select signal is generated by a  
2 clock, and further comprising:  
3 alternately selecting the data and mask images according to clock cycles.

1 11. (original) The method of claim 1 wherein the select signal is generated by a  
2 random generator.

1 12. (previously presented) The method of claim 11 wherein the displayed images  
2 occur in pairs so that each pair includes a first image and a second image in a  
3 random order.

1 13. (original) The method of claim 11 wherein the random generator operates  
2 according to an internal seed value and a real-time supplied value.

1 14. (previously presented) The method of claim 2 further comprising:  
2       generating a first random select signal to select the displayed images;  
3       generating a second random select signal to open and shut the optical shutter  
4 device; and  
5       synchronizing the second random select signal to the first random select  
6 signal.

1 15. (original) The method of claim 1 wherein each data image includes a plurality  
2 of pixels, and further comprising:  
3       negating each pixel of the data image serially to generate each corresponding  
4 pixel of the mask image; and  
5       serially selecting each pixel of the data image or the mask image according  
6 to a select signal; and  
7       sequentially displaying the selected pixels on a display device.

1 16. (original) The method of claim 15 further comprising:  
2       opening an optical shutter device when the selected pixel of the data image  
3 is displayed;  
4       shutting the optical shutter device when the selected pixel of the mask image  
5 is displayed so that only the data image is perceived by the authorized user viewing  
6 the display device through the optical shutter device, and a gray image is perceived  
7 by an unauthorized user viewing the data and mask images directly, the opening  
8 and shutting synchronized in phase and frequency to the select signal.

1 17. (original) The method of claim 16 wherein the select signal is generated by a  
2 clock, and further comprising:

3           alternately selecting the pixel from the data and the pixel from the mask  
4 images according to clock cycles.

1   18. (original) The method of claim 1 wherein the select signal is generated by a  
2 random generator.

1   19. (original) The method of claim 1 wherein a plurality of data images are  
2 provided in a video, and each data image is sequentially negated to produce the  
3 corresponding mask image.

1   20. (cancelled)

1   21. (cancelled)

1   22. (cancelled)

1   23. (cancelled)

1   24. (cancelled)

1   25. (original) An apparatus for displaying an image only to an authorized user,  
2 comprising:

3           a video camera generating a data image;

4           an inverter for generating a mask image, wherein the mask image is a  
5 negation of the data image;

6 a controller generating a select signal for selecting the data image or the mask  
7 image; and

8           a display device for sequentially displaying selected images on a display  
9 device.

1   26. (original) The apparatus of claim 25 further comprising:  
2           an optical shutter device opened when the data image is displayed and  
3 closed when the mask image is displayed so that only the data image is perceived  
4 by the authorized user viewing the display device through the optical shutter  
5 device, and a gray image is perceived by an unauthorized user viewing the data and  
6 mask images directly, the opening and shutting of the optical shutter device  
7 synchronized in phase and frequency to the select signal.

1   27. (original) The apparatus of claim 25 wherein the data and mask images are  
2 selected periodically.

1   28. (original) The apparatus of claim 25 wherein the data and mask images are  
2 selected randomly.

1   29. (previously presented) The apparatus of claim 25 wherein each image includes  
2 a plurality of pixels, and wherein each pixel of the data image negated serially.